

MILLS

METAL PARTITIONS

THE MILLS COMPANY · CLEVELAND, OHIO

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**"A
MILLS
METAL
PARTITION
FOR EVERY
PURPOSE"**

OFFICES

**FLUSH PILASTER
SINGL-INE
SYNCRFIT
EXECUTIVE**

FACTORIES

COMMERCIAL

HOSPITALS

CUBICLES

TOILETS

**CHALLENGER
METAL FLUSH**

UNIT SHOWERS

FLUSH PILASTER PARTITIONS

DISTINCTIVE FEATURES—Wide acceptance by architects, contractors and buyers has been accorded this most distinctive and original line of partitions because of the beauty and permanent appearance of its flush, plaster-like walls, the perfection with which it lends itself to any layout, its quick easy assembly, and its high salvage value. These Flush Pilaster partitions are 3 inches thick, double insulated, and are absolutely flush and permanently flat with a double hair-line joint between panels and ends with no protruding parts to collect dirt—an exclusive and unique design.

APPLICATIONS—In Mills Flush Pilaster Partitions we have the economical answer to all problems of space division. Many miles of these partitions now lend quiet dignity to executive offices and increase efficiency in general offices. Their high sound-resisting construction is contributing greatly to the advancement of ideal conditions in class rooms and broadcasting studios. Hospitals, clinics and laboratories are being assured of positive sanitary conditions. In fact, they have been applied in every instance where the need for a high quality, movable dividing wall has been paramount.

SIZES—Mills Flush Pilaster Partitions are stocked in flush panels of either all-steel or steel and glass construction, in multiple 6 inch widths (to 42 inches for all steel and 60 inches for steel and glass) for all standard cornice heights of 7'4 $\frac{7}{8}$ ", 8'9 $\frac{7}{8}$ ", 9'2" and 10'1 $\frac{1}{2}$ " (partitions above this height are not considered standard but can be fabricated).

With glazed panels the glass width is determined by the width of the panel used, but the height of the lower light is 42 in. and that of each upper light varies with the cornice height—15 $\frac{3}{4}$, 20 $\frac{1}{4}$ and 31 $\frac{3}{8}$ in. The 7 ft., 4 $\frac{7}{8}$ in. panel has a full light. The 10 ft., 1 $\frac{1}{2}$ in. panel has full lights above and below, separated by a 2 $\frac{1}{4}$ in. transom bar. The panels between these heights have a full light below and a half light above.

Door sections are interchangeable with 42 inch panel sections. Other sections are also interchangeable—an 18 inch and 24 inch section for a 42 inch section, etc.—to permit of any desired arrangement and *practically 100% salvage for rearrangement.*

CONSTRUCTION

Mills Flush Pilaster Walls are 3 inches thick. Each panel section is assembled from two sheets of high grade cold rolled furniture steel, first formed on the edges, and then welded to rigid vertical channels of the internal core. Slabs of $\frac{1}{2}$ inch thick, low density insulating board, are cleated on the studs attached to the vertical channels and cemented against back of the sheets under pressure. The panel sheets, while under pressure, are welded to the core around its entire perimeter, thus holding the insulation tightly against the steel and assuring a permanently flat rigid panel. No wind or weave is possible. While the standard panels have very great sound resisting qualities, holes are provided in the vertical channel members to permit the 2-inch dead air space to be filled

(when additional sound deadening is required) with blown rock wool, or other sound-proofing material. The base and post caps may also be felt lined and filled for further sound resistance.

The two lower corners of each panel are fitted with legs that rest on and lock into Mills Patented Floor leveling devices. In combination steel and glass panels the construction described above is used to a height of 42 inches with the glass above. The glass is held securely with modern moldings, without requiring the use of exposed screws or fasteners. The moldings do not protrude beyond the face of the panel and maintain therefore the modern, flat, and up-to-date appearance, (characteristic of this partition) so much desired.

Fig. 392. Flush Pilaster Partition with All Steel and Steel and Glass Adjoining.

Fig. 393. Flush Pilaster Partition with Glass.

Fig. 394. Flush Pilaster Partition Lends Itself to Any Desired Arrangement.



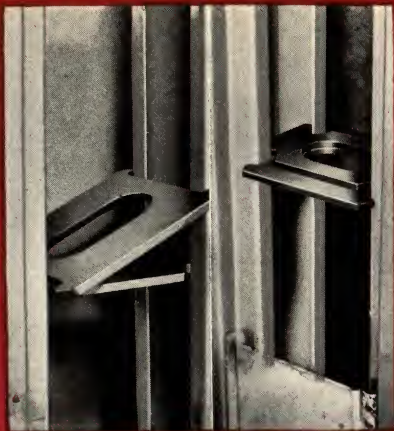


Fig. 389. Post Clip—Open and Closed.



Fig. 390. Cornice to Panel Attachment.

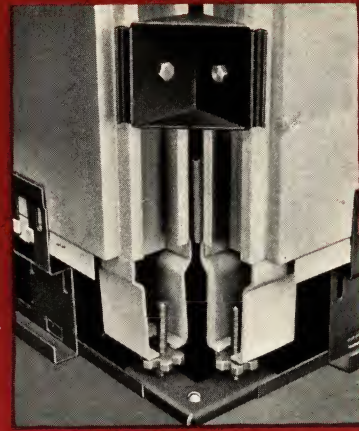


Fig. 383. Corner Post Clip and Spacer.

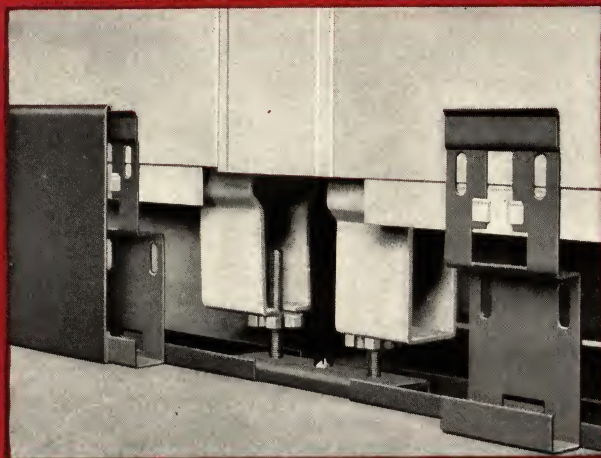


Fig. 387. Standard Complete Floor Assembly at a Pilaster.

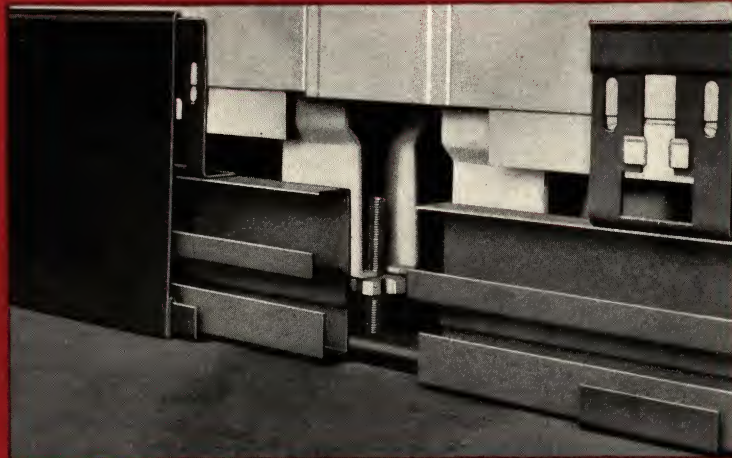


Fig. 385. Standard Assembly at a Pilaster with High and Low Tension Conduit.

FEATURES OF THE MILLS FLUSH PILASTER PARTITION

FLOOR CONNECTIONS—Mills Flush Pilaster partition floor connections assure perfect alignment on uneven floors. The patented leveling device (Fig. 387) rests on the floor, and in turn holds the floor channel in perfect alignment from pilaster to pilaster. For door sections, the leveling device is fitted with a lug and clip which eliminates the possibility of the door frame turning or twisting.

BASE—Mills Flush Pilaster Base is continuous across the panels, as with any masonry or plaster wall. This assembly permits installation of this base on other types of walls which frequently form part of the room. "Base Clips" of the "floating type" (Fig. 385) are first secured in place and the base is then hooked securely to the clips (Fig. 385). This construction affords pleasing appearance, sanitation, easy removal to permit the installation of wires, by laying in without the nuisance of fishing or threading and insures a tight clamping fit and easy adjustment up or down to meet any floor covering.

PILASTER CAPS—(Fig. 389). They connect the individual panel sections to form a strong and rigid wall. The combination tension and compression members of the post clip positively prevent any tendency of the wall to get out of plumb. They can be located at any desired position and will hold the pilaster cap rigidly in place. They also permit the cap to be removed easily for vertical wiring and for the installation of switches, etc. Pilaster caps are purposely designed to inlay. They snap on to the post connections

and extend up under the cornice trim and below the top of the base to give a pleasing and modern appearance not found in other types of construction. "T" and corner connections are easily made, see (Fig. 383, and Diagram III on following page).

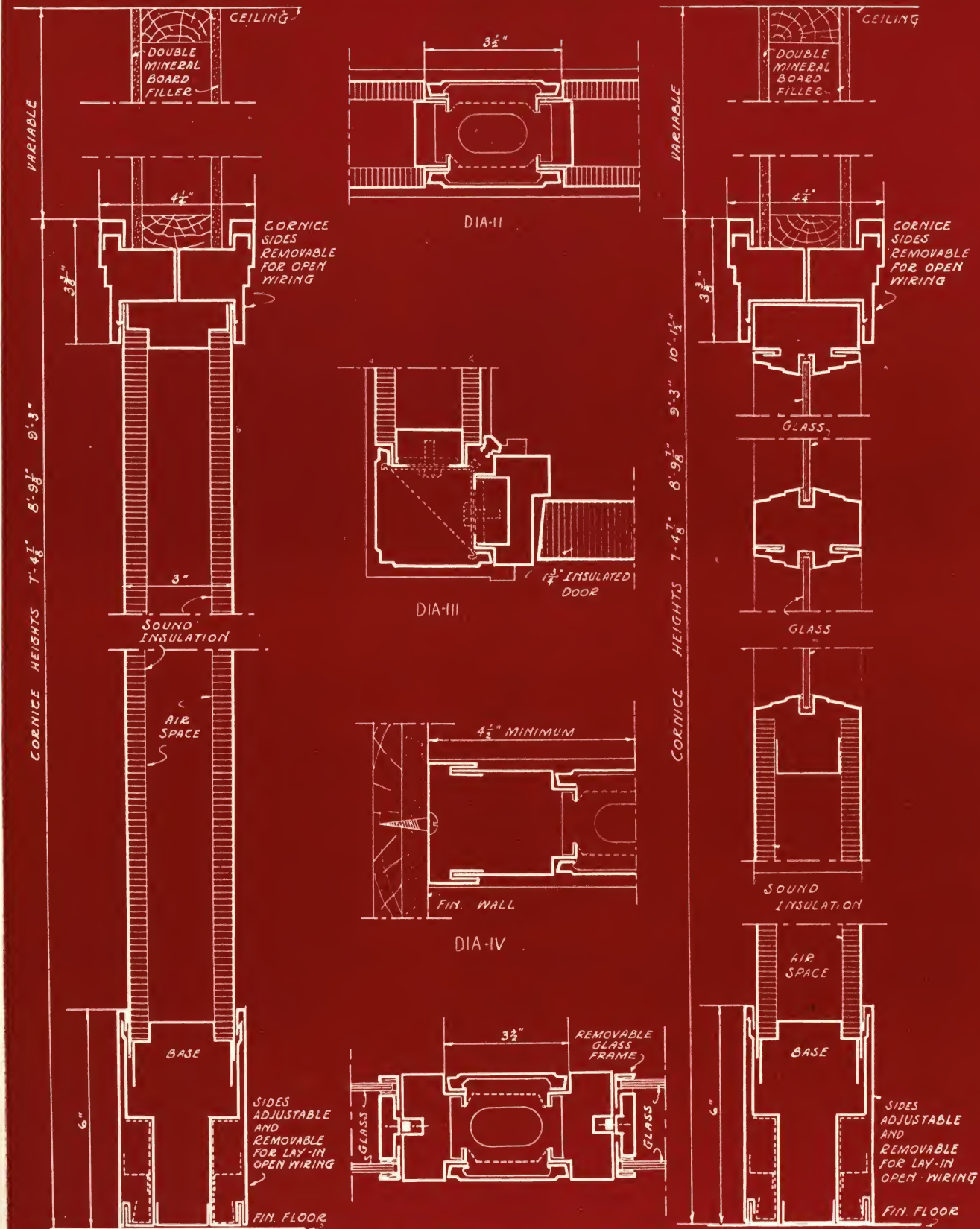
CORNICE—Mills Flush Pilaster Partitions are held in perfect alignment at the top with a rigid, double channel, structural cornice. This structural cornice is held tightly at each post point with a cotter pin key wedge which is quickly and easily locked (Fig. 390). It is covered with a distinctive cornice trim which is removable to give access separately to the layin-wiring conduit from either side of the wall.

Door frames are 3 inches thick and flush with the panels. Doors are also insulated and are $1\frac{3}{4}$ inches thick, being of rigid construction and modern design.

ERECTION—Mills customers who have watched the erection of our Flush Pilaster Partitions have marveled at the speed with which the work is accomplished. There is an entire absence of exposed nuts, bolts or screws.

FINISH—Flush Pilaster partitions are available in any flat color of egg shell or satin finish and can be furnished to match any particular decorative scheme. Careful reproductions of fine wood grains are also furnished at a slightly increased cost.

MILLS FLUSH PILASTER PARTITION DETAILS



Dia. I. Vertical Section—All Steel

Dia. V. Detail of Double Glazing

Dia. VI. Vertical Section—Steel and Glass

MILLS COMMERCIAL PARTITIONS

DISTINCTIVE FEATURES—The Mills Commercial Partition is an established line with many years of satisfactory service behind it. Extreme durability, quick, easy erection and re-erection with minimum maintenance; ability to be expanded in either a horizontal or vertical direction, make Mills Commercial Partitions ideal for industrial installation. Floor channels, adjustable to 2½ inches, permit the partition to adhere tightly to uneven floors, and provides ample space for running wires, air lines, etc. Glass, wire mesh, grilles and ventilators are interchangeable in standard panels, to facilitate easy erection and re-arrangement.

APPLICATIONS—Mills Commercial Partitions are used to define departmental divisions, production and superintendents offices, stock rooms, warehouses, tool cribs, etc., and can be nicely adapted for office use. This is accomplished by simply replacing the narrow lights of glass with wide lights, and the standard box cornice with an ornamental cornice.

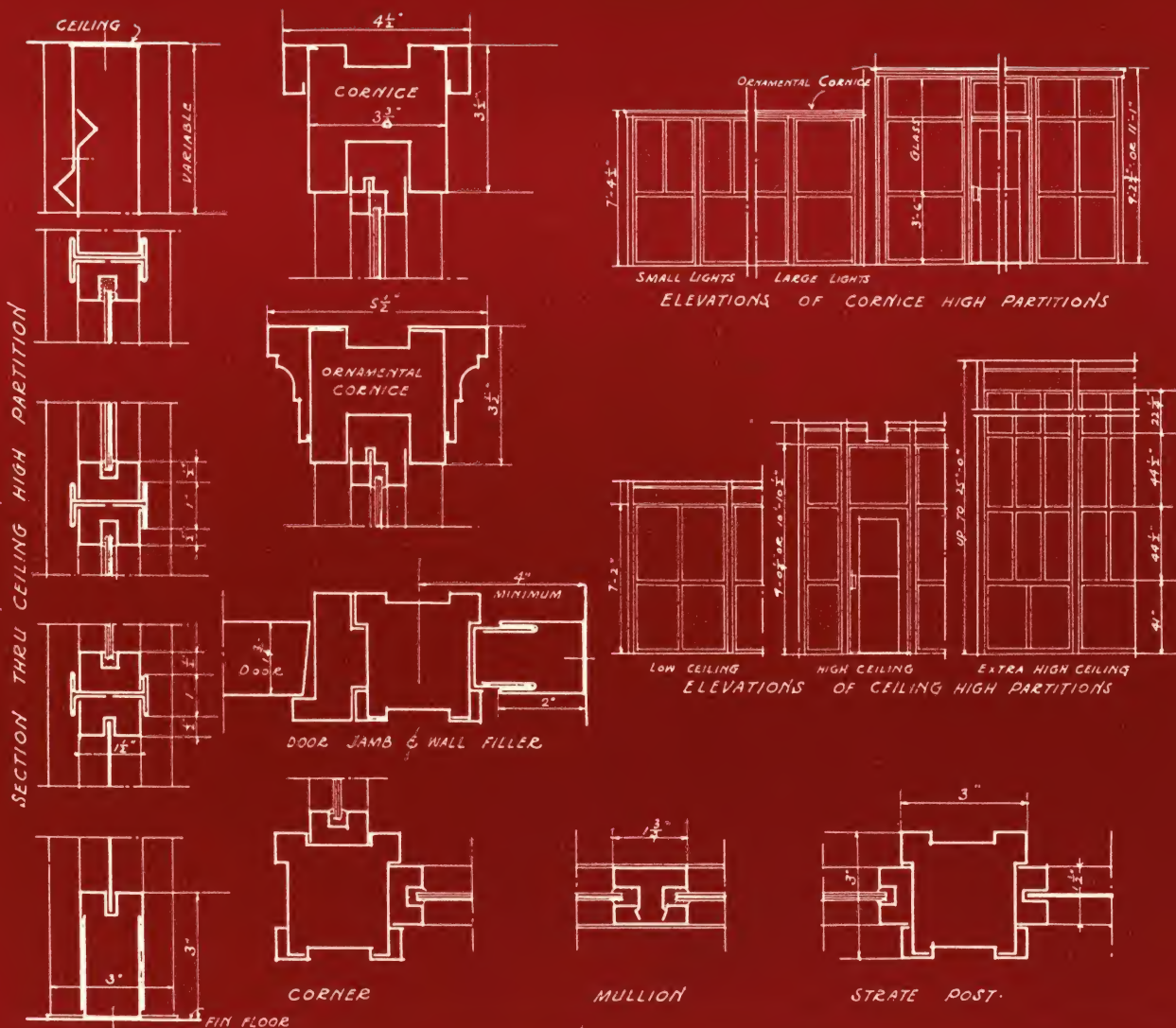
SIZES, CONSTRUCTION AND FINISH—Mills Commercial Partitions are fabricated of cold rolled furniture steel and are furnished in standard panel widths of 20, 30, 40, 50, 60, 80 and 100 inches, with standard cornice heights of 7'4½", 9'2¾" and 11'1". Horizontal connections are made with tightly interlocking "I" sections to form a rigid wall which may be built to extreme heights. Vertical connections between units are made with 3 inch posts to which all units are blind bolted. Mills Metal Door Frames are hollow, with eight angle bends which insures exceptional strength. Standard doors are 35 x 83 inches and the top of the center rail is 42 inches off the floor, corresponding with the panel height. All of this is accomplished without the use of screws or any exposed fastenings.

Standard finish of Mills Commercial Partitions is either olive green or gray in durable baked enamel. Any other color or finish may be had at a slightly increased cost.



Dia. VII. Detail of Mills Commercial Partitions.

Fig. 157. Showing Height of Mills Commercial Partition.



A MILLS METAL PARTITION FOR EVERY PURPOSE

MILLS EXECUTIVE PARTITIONS

This Mills Executive Partition Installation Provides a Long Run and Extraordinary Height with Two-Corridor Superstructure.



DISTINCTIVE FEATURES—Exceptional rigidity, beautiful mouldings in both the vertical or horizontal directions and permanent appearance, together with ease of erection and low cost of re-arrangement are but a few of the features that give The Mills Executive Partition such universal popularity and acceptance.

The Executive Office Partition is truly a pioneer line. It is one of the original types pioneered by The Mills Company "Partitioneers" and is designed to meet the demand for beauty and quiet dignity, as well as durability and interchangeability.

APPLICATIONS—Mills Executive Partitions provide dignified and attractive surroundings for many of our country's busiest executives. Great corridors of this partition form the general offices of many leading American business institutions. Mills Executive Partitions have solved the problem of speeding erection, pleasing appearance and economical re-adjustment for hundreds of architects, contractors and owners. They stand ready to solve your problem with equal and complete satisfaction.

SIZES—Mills Executive Partitions are furnished in standard panel widths of 20, 25, 30, 35, 40, 45, 50, 55 and 60 inches, and in standard cornice heights of 7'-4", 8'-8", 9'-2" and 10'-4" (Any partition above the 10'-4" height is not considered standard but can be fabricated) of either all-steel or steel and glass construction.

Fig. 206. Office Built Entirely of Standard Units—Mills Executive Partitions.

Fig. 207. An Attractive Installation of Mills Executive Railings.

6



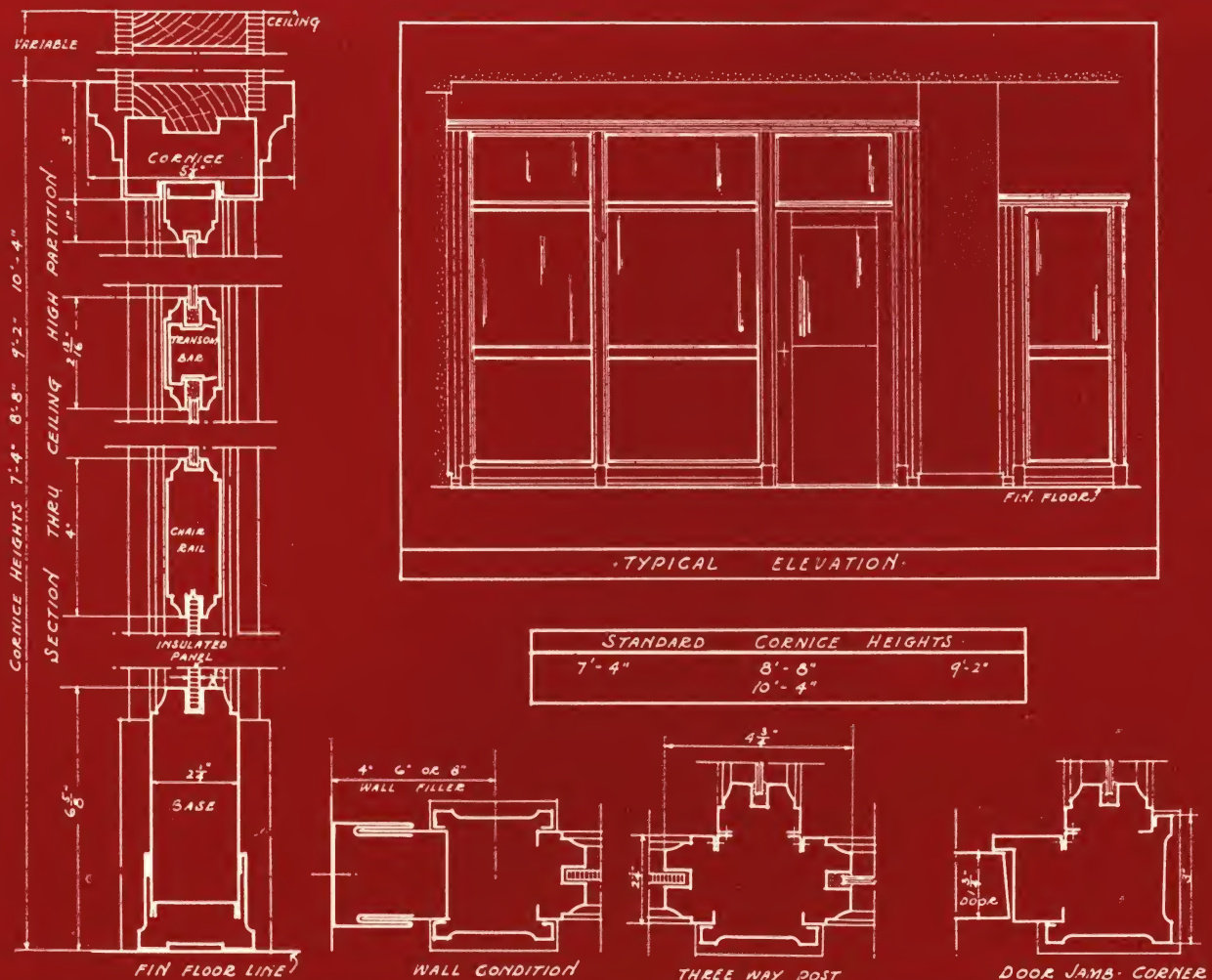
MILLS EXECUTIVE PARTITIONS

CONSTRUCTION AND FINISH—Mills Executive Partitions are fabricated from cold rolled furniture steel in the form of double sheet steel panels, insulated between sheets with sound deadening material $\frac{3}{8}$ of an inch thick. They are also designed to accommodate any type and thickness of glass. Glass is inserted without the use of loose mouldings or screws. At each post connection, where units are held together, a run of partition can be connected either in an "L" connection or four-way connection. All units are entirely interchangeable. For example, a 20 inch and a 30 inch section replaces one 50 inch unit, etc. The door and door section is interchangeable with any 40 inch unit. Plinth blocks are beautifully designed to make possible easy access to all wiring and floor connections without removing post caps. The base of the panel nests in the floor channel, which is anchored to the floor by a new arrangement and is easily adjustable to assure perfect alignment on uneven floors.

Each unit is securely clamped together with our specially designed friction clip, thus forming a strong and rigid connection and prevents any tendency of the panels to get out of plumb. With this arrangement, ample space is provided between the units for concealment of wires or placing of outlets or switches. Mills Executive Partitions and railing will be furnished in any standard flat color baked enamel. Beautiful reproductions of carefully selected wood grains will be furnished at a slight additional cost.

7

Dia. VIII. Details of Mills Executive Partitions.



Finishes for Mills Metal Flush Partitions are olive green or gray baked enamel. A wide range of colors may be had at a slight additional cost.

Typical Installation of Mills Metal-Flush Partitions

8



MILLS CHALLENGER TOILET PARTITIONS

PANEL TYPE

FEATURES—The "Challenger" construction has met with immediate approval everywhere. It offers, in addition to its attractive appearance, permanence, sanitary features of construction, wide adaptability to all conditions and incomparable dollar value. An attractive, unbreakable modernistic bakelite door pull is supplied and all hardware is of nickel-plated brass in attractive modern patterns.

SIZES—Mills Challenger Partitions are furnished in standard multiples of 6 in. deep and 54 or 60 in. standard heights. Higher partitions supplied on request. Doors are in multiples of 2 in. in width and height to correspond to the panels.

CONSTRUCTION—Will meet practically any space requirement. Doors swing in or out. Partitions are securely braced by 1 x 1 3/4 in. head rail rigidly attached to each post by means of a post cap. Posts are of 1 3/4 in. square steel tubing. The front 1 3/4 in. square sanitary post extends to the floor at approximately 12 in. below the bottom panel rail and above the top panel rail to the head rail bracings approximately 6 ft. 6 in. from the floor. Rear 1 3/4 in. square sanitary post extends just above and below the top and bottom panel rails. No open joints to catch dirt. Panels and doors are made from 16 and 18 gauge cold rolled furniture steel in strict accordance with Simplified Practice Recommendations R101 of the Department of Commerce Bureau of Standards.

Panel sheets extend and are flanged and welded into posts. Top and bottom rails are wedged between front and back posts and held in place by welding to hold the panel sheet in tension and eliminate rattle.

An exclusive feature is the white metal cadmium plated sanitary post shoe that fits inside the post, elevating it from the floor and protecting it from moisture and rusting.

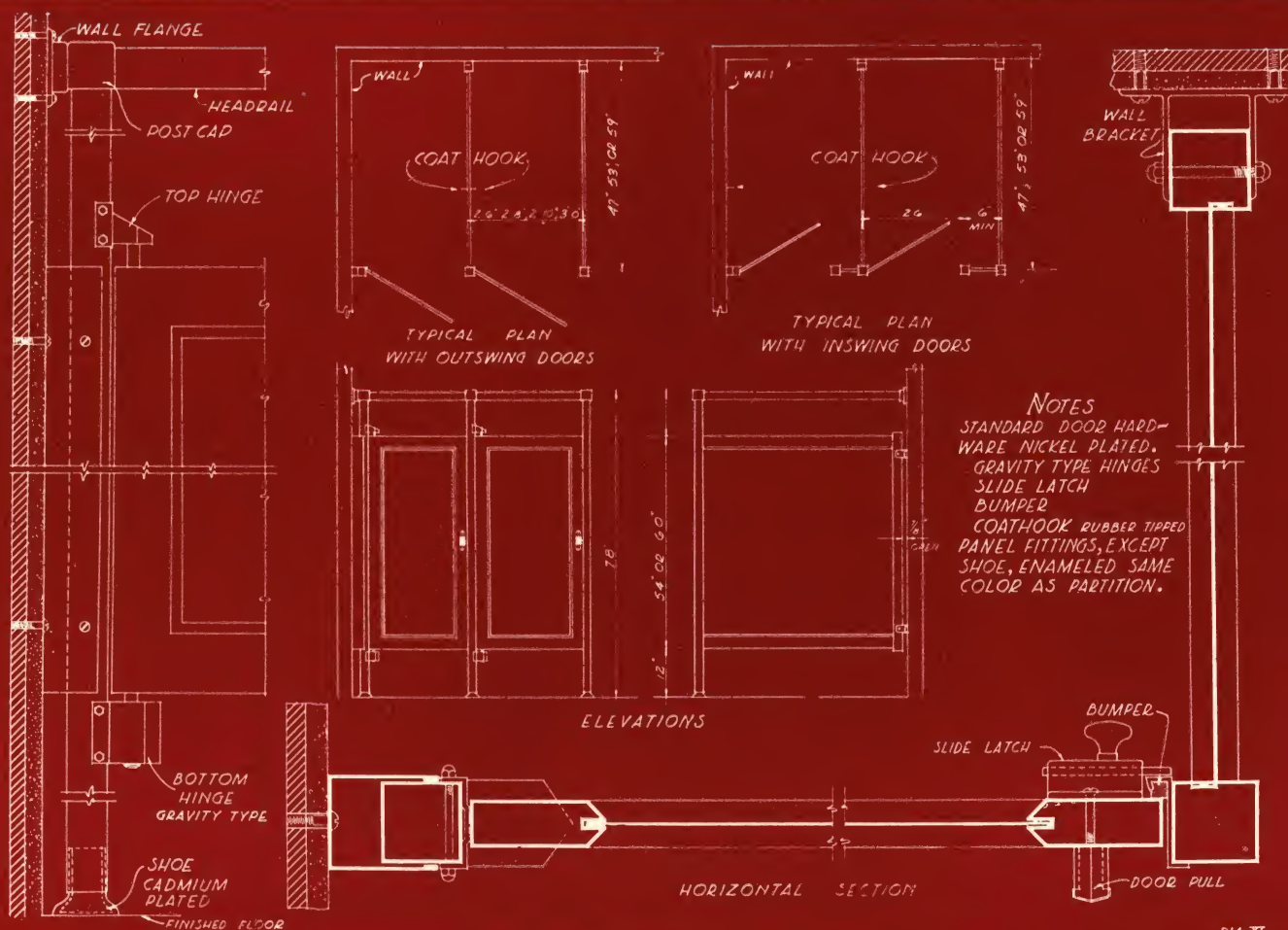
FINISH—Prime coat baked on inside and out with finished coat of olive green or gray baked-on enamel. Other colors at additional cost.



Typical Installation of
"Challenger" Partitions

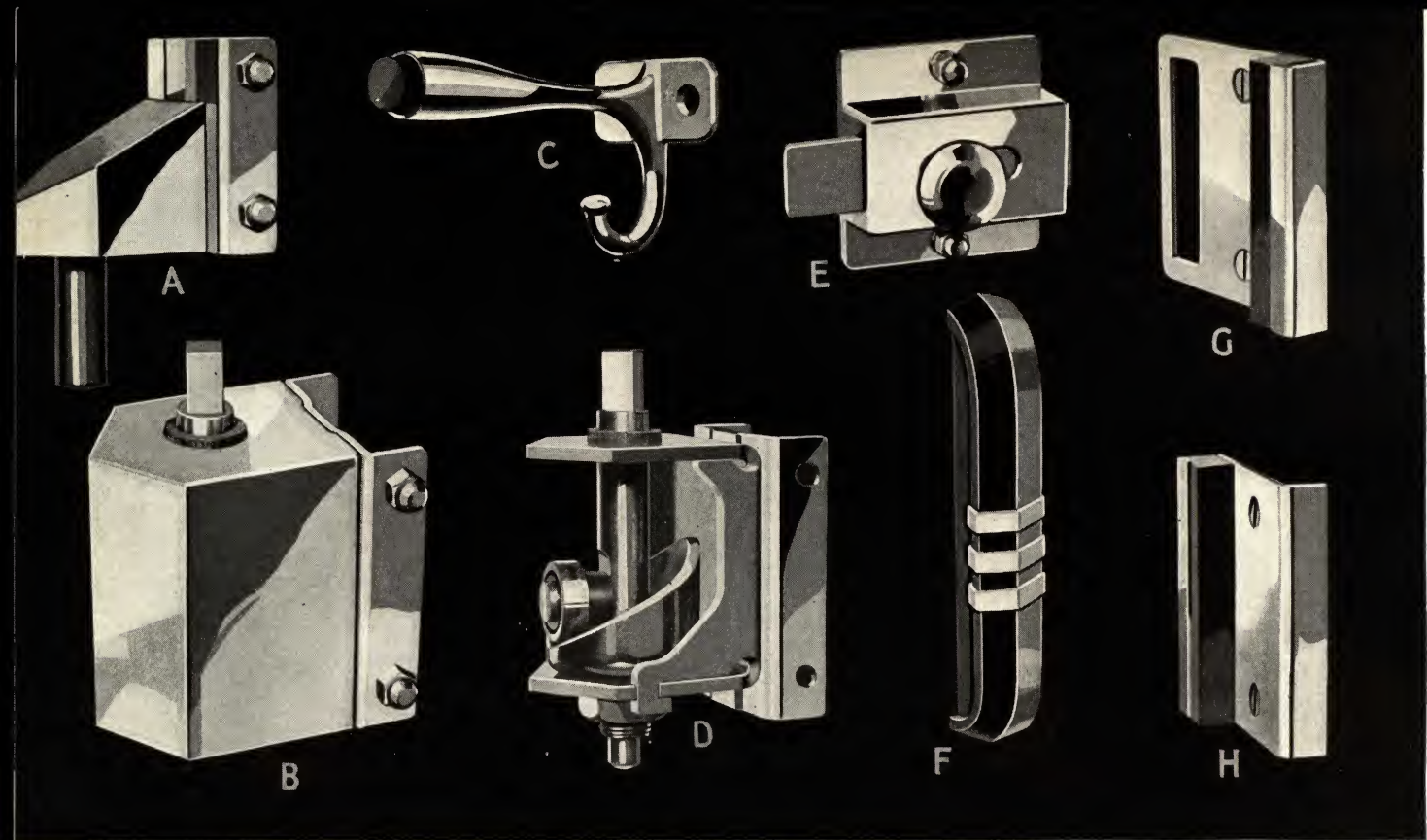
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Dia. X. Details of Mills Panel Type Toilet Partitions.



DIA. XI

A MILLS METAL PARTITION FOR EVERY PURPOSE



A—The upper hinge has spindle locked rigidly in place and is attractively housed.

B—The lower hinge is ball bearing roller, gravity operated and adjustable to close at any angle.

C—Coat hangers are fitted with rubber door bumpers and shaped to prevent tearing apparel.

D—Lower hinge with cover removed to show adjustable cam and ball bearing mounted, hardened steel roller.

E—Latches of sliding bar type and fitted with anti-rattle springs, and are through-bolted.

F—Modernistic door handles are convenient to operate.

G—Door bumper for in-swinging doors with keeper and rubber cushion.

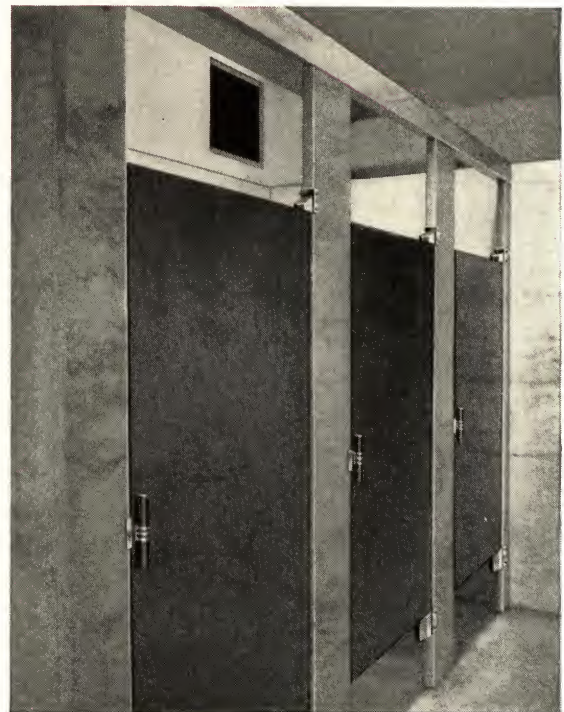
H—Bumper used with out-swinging doors.

MILLS METAL-FLUSH DOORS FOR MARBLE PARTITIONS

Mills Metal-Flush Doors and Mills Hardware for marble toilet compartments enable architects to carry out to the most minute detail, in public and semi-public, institutional and ornamental buildings, the beauty, strength and distinctive appearance they have imparted to other parts of the structure. Doors are fabricated from two sheets of steel, cemented to a laminated fibre core and surrounded with an interlocking moulding which is welded at the corners for additional strength. The doors are rigid, extremely light in weight, and non-porous. They will absorb no odors. Metal-Flush Doors are available in any desired finish; in glistening black enamel; in beautifully grained walnut or mahogany, or may be fabricated in aluminum or other special metals, if desired.

NEW MODERN HARDWARE

The new Modern Hardware for Mills Metal-Flush Doors is of the latest improved design. It must be seen to be fully appreciated. All exposed parts are fabricated in brass and nickel or chromium plated. In the bottom hinge, a hardened ball-bearing wheel rotates on a steel pin and runs on a hardened steel cam. A hidden locknut permits adjustment to bring the door to rest in any desired position. Post brackets can be adapted to any thickness of marble. The hardened pin of the top hinge works in a graphite impregnated bushing. The modern handle or pull is of new material which will never tarnish nor lose its lustre, with brass, nickel or chromium plated trim through bolted to the slide-bar door latch. The combination coat hook and bumper eliminates banging. All hardware is through-bolted with bonnet head bolts and nuts (see illustrations). In beauty and strength Mills Hardware leads the entire field.



Typical Mills Metal-Flush Doors on Marble.

MILLS HOSPITAL CUBICLES

METAL-FLUSH OR SINGLE PANEL TYPES

Mills *Hospital* Cubicles are manufactured in either metal-flush or panel-type design.

Cubicles with or without glass are built in multiple widths of 6 in., from 30 to 120 in. in depth. When the depth of the cubicle exceeds 60 in., an intermediate post is always placed in the center of the partition. When glass is used it may be either clear or translucent and either type may be wire reinforced.

SIZES

Mills Cubicles are 66 in. high—lower panel is placed 12 in. off the floor—glass line is 42 in. off the floor—the glass extending upwards for 30 in. or within 6 in. of the headrail. Erected overall height, 78 in.

PROTECTION

Mills adjustable internal post shoes are cadmium or chromium plated to prevent rust. Post caps and wall fittings are furnished with baked enamel to match the panels. If required they may be chromium plated at slight additional cost.

FINISH

Baked enamel in a range of desirable colors to harmonize with any hospital scheme is available.



Flush Type
Cubicle
Installation



Panel Type Cubicle Installation.

MILLS ALL-METAL UNIT SHOWERS

DISTINCTIVE FEATURES OF CONSTRUCTION

The Mills *All-Metal* Unit Shower is an absolutely water-tight and leakproof, self-contained unit with its own rustproof receptor. The All-Metal Shower will not chip, sag or crack due to vibration or settling of the building or from other causes. Mills showers will not absorb odors . . . they are absolutely sanitary and are easy to keep clean.

SIZES AND INSTALLATION DETAILS

Standard wall height is 84 inches to extend beyond the usual shower head height. Stock showers are 36x36 inches in cross-section. Showers 30, 32, 34 or 36 inches deep or wide are available in any combination. Corners are of an interlocking water-tight construction. Water pipes leading to the shower head are brought over the top, through the back, or from either side. The 4-inch removable brass drain is secured with water-tight gaskets.

Mills All-Metal Unit Showers are shipped knocked down—with curtain rod and fasteners—complete with instructions for their erection in minimum space. Specially prepared marble, terrazzo, concrete tile, or waterproof wood floors are not required. An ordinary, un-waterproofed floor furnishes sufficient support.

FINISH

All-Metal Shower Receptors are cadmium plated by the Udylyte process (Navy Specifications) for permanent rustproofing. Walls are finished in Mills standard grey or olive green, or in other colors at slight extra cost—also furnished in aluminum or other special metals. Shower head, valve controls, soap dishes and curtains can be furnished, if desired, at slight extra cost.



Fig. 255. Mills All-Metal
Unit Shower.

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METAL PARTITIONS

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THE MILLS COMPANY · CLEVELAND, OHIO
BRANCH OFFICES

NEW YORK DETROIT CHICAGO PITTSBURGH BUFFALO

Representatives in all principal locations